

Attachment 2: Foodborne Disease

**Section:1 ENHANCE CAPACITY FOR INVESTIGATION, CONTROL AND
REPORTING OF FOODBORNE DISEASE OUTBREAKS**

Subsection: 2

OutbreakNet: PERSONNEL AND TRAINING

A. Personnel - \$52,630

Foodborne Epidemiologist (1.0 FTE, 12 months) (Harris) \$52,630
Ms. Harris is assigned to the Food Protection Program and works closely with the Working Group on Foodborne Illness Control. Ms. Harris oversees the implementation of the Foodborne Illness Investigation training program and the trainings related to risk-based inspections, working closely with local boards of health to improve their reporting and investigation of foodborne illness outbreaks and responsible for updating the Department's web site with pertinent foodborne illness information.

B. Fringe Benefits - \$13,676

Fringe benefits applicable to direct salaries and wages are treated as direct costs. The fringe benefit rate is 25.81% plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

C. Travel - \$3,185

In State - \$1,670

Funding is requested to travel to local health departments, foodborne illness trainings, and foodborne illness investigations throughout Massachusetts: 3,500 miles at \$.45/mile = \$1,575

Conference: Annual Massachusetts Health Officers Association Conference in Hyannis, MA (1 x person registration fee: \$95.00)

Out of State - \$1,515

Outbreaknet Meeting Buffalo, NY - June 2009

CDC Sponsored Meeting \$1,515

Airfare 1 Epidemiologist x r/t airfare \$350

Conference fee \$395

4 nights lodging x 1 person/\$150/night \$600

Ground transportation costs \$100

4 day per diem 1 person x \$17.50/day \$70

D. Equipment - \$0

E. Supplies - \$2,500

General Office Supplies - \$2,500

Funding is requested for the purchase of general office supplies: paper, postage, folders, envelopes, etc.

F. Contractual - \$0

G. Construction - \$0

H. Other - \$2,298

Information Technology Support charge back: \$1,098 – A cost assessment has been determined for support of computer equipment/rental/internet access/software support and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

Printing - \$1,200

Funding is requested for the printing and binding of training materials for six Foodborne Illness Investigation courses for approximately 100 participants (100 manuals x \$12.00/each).

I. Total Direct Cost - \$74,289

J. Indirect Costs - \$8,000

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages

TOTAL: OutbreakNet PERSONNEL and TRAINING - \$82,289

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**Section:1 ENHANCE CAPACITY FOR INVESTIGATION, CONTROL AND
REPORTING OF FOODBORNE DISEASE OUTBREAKS**

Subsection: 3

OutbreakNet - COLLECTION AND TRANSPORT

A. Personnel - \$0

B. Fringe Benefits - \$0

C. Travel - \$0

D. Equipment - \$0

E. Supplies - \$4,720

Specimen Collection Materials	\$1,200
Collection containers, mailing tubes, inserts	
Specimen Collection Training Materials	\$2,520
Binders, dividers, stick-it pads, highlighters, laminating pouches	
Specimen Collection Educational Materials	\$1,000
Posters including packaging and shipping	

F. Contractual - \$4,560

Funding is requested for the collection and transport of specimens.

Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:

Federal Express, Greenbelt MD
USA Couriers, Boston MA
Millers Express, No. Easton MA
Advantage Delivery Services, Rockland, MA
City Express, Boston MA

Method of Selection: Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

Period of Performance: January 1, 2009 –December 31, 2009 (one year)

Scope of work: The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

Method of Accountability: The laboratory supervisor will oversee the contractor.

Budget: \$4,560

Flat rate round trip to Berkshires (Western MA): \$284

Flat rate round trip to Worcester (Central MA): \$95
Average: \$190 per trip - 12 outbreaks x 2 trips per outbreak x \$190 per trip =
\$4,560

G. Construction - \$0

H. Other - \$720

Postage – \$720

Funding is requested overnight mail services to ensure timely delivery of collection kits and samples. (10 lb package shipped by overnight mail = \$15.00 each way = \$30.00 for each mail-out/mail-in service) 12 outbreaks x 2 mail-out/mail-in services per outbreaks x \$30 per service = \$720.00)

I. Total Direct Cost - \$10,000

J. Indirect Costs \$0

TOTAL – OutbreakNet: FOODBORNE DISEASE COLLECTION AND TRANSPORT - \$10,000

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**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR
EMERGING FOODBORNE PATHOGENS**

Subsection: A

PULSENET LABORATORY

A. Personnel - \$51,067

PFGE Bacteriologist II (1.0 FTE, 12 months) (Sennott) \$51,067

Ms. Sennott will perform functions performed in our PFGE Laboratory as described in the reapplication. Ms. Sennott coordinates PFGE activities, including PFGE analysis and maintenance of PFGE databases.

B. Fringe Benefits - \$13,272

Fringe benefits applicable to direct salaries and wages are treated as direct costs.

The fringe benefit rate is 25.81% Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

C. Travel - \$2,490

Out of state travel - \$2,490

Funding is requested for 1 laboratory and 1 epidemiology staff member to travel to the Annual PulseNet meeting in Snowbird UT, 2009.

Airfare \$500 x 2	\$1,000
Registration \$150 x 2	\$300
Hotel \$150 x 3 nights x 2	\$900
Meals 4 day x 17.50 x 2 persons	\$140
Ground transportation x 2	\$150

D. Equipment - \$0

E. Supplies - \$53,500

Lab supplies - \$52,500

Funding is requested to perform 2300 tests, including restriction enzymes \$22,000, agarose \$4,500, media \$3,500, reagents \$4,500, tubes \$4,000, disposables \$10,000 (tips, swabs, loops needles etc); gel supplies \$1,000; reference books and materials \$500; misc. supplies \$2,500

General Office Supplies - \$1,000 Funding is requested for the office supplies necessary to the running of the PFGE Lab including paper, ink, permanent markers, binders, disks, pens, etc.

F. Contractual - \$5,000

Annual maintenance for 5 CHEF PFGE mappers – equipment used daily for Pulse Net activities.

Name of contractor: Bio-Rad Corporation, Hercules, CA

Method of selection: The purchase of the PFGE laboratory equipment was competitively procured in previous cooperative agreement years.

The manufacture of this DNA fingerprinting equipment is the only source of maintenance.

Period of performance: January 1, 2008 – December 31, 2008 (one year).

Scope of Work: Inspection of equipment, determine failure, repair

Method of Accountability: Contractor will work at the direction of the laboratory supervisor

Budget: \$5,000 (5 machines @\$1,000 ea.)

G. Construction - \$0

H. Other - \$1,098

Information Technology Support charge back: \$1,098 – A cost assessment has been determined for support of computer equipment/rental/internet access/software and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

I. Total Direct Cost - \$126,427

J. Indirect Costs - \$7,762

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages

TOTAL: PULSENET LABORATORY - \$134,190

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**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR
EMERGING FOODBORNE PATHOGENS**

Subsection: A.1

PULSENET AREA LABORATORY

A. Personnel - \$50,796

PFGE Bacteriologist III (1.0 FTE, 12 months) (Watarida)	\$50,796
Ms. Watarida supervises all functions performed in PFGE lab as described in application. Coordinates susceptibility testing of relevant PFGE isolates.	

B. Fringe Benefits - \$13,202

Fringe benefits applicable to direct salaries and wages are treated as direct costs. The fringe benefit rate is 25.81% salaries and wages for the above-listed positions plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

C. Travel - \$2,915

Area Lab Site Visits \$1,640	
Approximately 2000 miles x \$0.45/mile	\$900
4 nights lodging x 1 person x \$150 night	\$600
Meals x 8 days x 1 person x \$17.50/day	\$140

Regional PulseNet meeting \$1,275

Funding is requested for 2 laboratory staff and 1 epidemiology staff to travel to the 2009 Annual Regional PulseNet meeting.

Hotel \$150 x 2 nights x 3	\$900
Meals x 2 days x 17.50/day x 3 persons	\$105
Approximately 200 miles x \$0.45/mile x 3	\$270

D. Equipment - \$0

E. Supplies - \$17,750

Lab supplies: \$16,250

Funds are requested to perform PFGE for ongoing and expanded activities as described above, as well as to provide supplies as needed to all labs within the Northeast Region., including restriction enzymes \$5,000, agarose \$1,500, media \$1,000, reagents \$750, disposables \$2,000, gel supplies \$1,000; misc. other supplies as needed \$5,000.

Office Supplies: \$1,500

Funding is requested for general office supplies.

F. Contractual - \$0

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G. Construction - \$0

H. Other - \$25,196

IT support \$2,196

Funding is requested for Information Technology chargeback for personnel (a)computer (Watarida) and (b) laptop computer used in making area site visits. Information Technology Support charge back: – A cost assessment of \$1,098 has been determined for support of computer equipment/rental/internet access/software and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

Software- \$23,000

Funding is requested for an additional 2-user BioNumerics license that would allow for completion of several data mining projects (currently planned for the Northeast Region) without interfering with routine PFGE lab work.

I. Total Direct Cost - \$109,859

J. Indirect Costs - \$7,721

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages.

TOTAL - PULSENET AREA LABORATORY - \$117,580

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**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR
EMERGING FOODBORNE PATHOGENS**

Subsection: B

SURVEILLANCE OF SHIGA TOXIN-PRODUCING E. coli

A. Personnel - \$0

B. Fringe Benefits - \$0

C. Travel - \$0

D. Equipment \$0

E. Supplies - \$15,500

Laboratory Supplies: Shiga toxin EIA kits \$8000 RIM latex test kits \$3,000; Primers and probes for PCR identification of Stx 1 and Stx 2 \$2,000; Triple layer packaging materials for delivery of Shiga-toxin producing E. coli (a Category A infectious substance) from clinical laboratories to State Laboratory \$2,500.

F. Contractual - \$5,000

Funds for delivery of Shiga-toxin producing E. coli (a Category A infectious substance) from clinical laboratories to MA State Laboratory by Category A courier \$5000.

Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:

Federal Express, Greenbelt MD
USA Couriers, Boston MA
Millers Express, No. Easton MA
Advantage Delivery Services, Rockland, MA
City Express, Boston MA

Method of Selection: Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

Period of Performance: January 1, 2009 –December 31, 2009 (one year)

Scope of work: The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

Method of Accountability: The laboratory supervisor will oversee the contractor.

Budget: \$5,000

G. Construction - \$0

H. Other - \$0

I. Total Direct Cost - \$20,500

J. Indirect Costs - \$0

TOTAL SURVEILLANCE OF SHIGA TOXIN-PRODUCING E. coli \$20,500

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**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR
EMERGING FOODBORNE PATHOGENS**

Subsection: E

NARMS

A. Personnel - \$0

B. Fringe Benefits - \$0

C. Travel - \$0

D. Equipment - \$0

E. Supplies – \$6,500

Antisera for identification of *Salmonella* species, *Shigella* species, and *E. coli* O157:H7 \$2,500, Selective media \$1,300; Miscellaneous shipping supplies (parafilm, tape, labeling stickers) \$1,700; Triple layer packaging materials for quarterly shipment of Shiga-toxin producing *E. coli* (a Category A infectious substance) from State Laboratory to CDC \$1,000.

F. Contractual - \$1,500

Funds for delivery of Shiga-toxin producing *E. coli* (a Category A infectious substance) from MA State Laboratory to CDC by Category A courier \$1,500.

Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:

Federal Express, Greenbelt MD

USA Couriers, Boston MA

Millers Express, No. Easton MA

Advantage Delivery Services, Rockland, MA

City Express, Boston MA

Method of Selection: Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

Period of Performance: January 1, 2009 –December 31, 2009 (one year)

Scope of work: The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

Method of Accountability: The laboratory supervisor will oversee the contractor.

Budget: \$1,500

G. Construction - \$0

H. Other - \$0

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I. Total Direct Cost - \$8,000

J. Indirect Costs - \$0

TOTAL NARMS \$8,000